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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,315	10/25/2001		Seong Yong Kim	8111-009-999	2983
20583	7590	09/08/2004		EXAM	INER
JONES DA	Υ		ELMORE, REBA I		
222 EAST 4 NEW YORI		0017		ART UNIT	PAPER NUMBER
NEW TOK	x, 1v1 10	7017		2187	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		W.D
	Application No.	Applicant(s)
	10/002,315 KIM, SEONG YONG	
Office Action Summary	Examiner	Art Unit
	Reba I. Elmore	2187
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet \	viui ule correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of the od will apply and will expire SIX (6) Mo ute, cause the application to become.	a reply be timely filed inty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 25	October 2001.	
	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under		
Disposition of Claims		
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9)⊠ The specification is objected to by the Exami		to the Europine's
,	ccepted or b) objected t	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrections.		
11)⊠ The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No en received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>5/23/02</u>. 	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)

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DETAILED ACTION

1. Claims 1-11 are presented for examination.

Specification

- 2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Korea on October 25, 2001. It is noted, however, that applicant has not filed a certified copy of the 2000-63039 application as required by 35 U.S.C. 119(b).
- 3. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

The oath or declaration filed with the application October 25, 2001 shows two inventors:

Sung Hun Park Seong Yong Kim

neither of which signed the original oath.

The oath or declaration filed February 12, 2002 shows only Seong Yong Kim. This declaration has been signed on January 28, 2002.

It is not clear which oath or declaration is to be the correct oath or declaration. To remove inventor Sung Hun Park from the application, see MPEP 201.03(d).

4. The disclosure is objected to because of the following informalities:

acronyms must be defined at their first usage, for example:

SCRAM – page 1, line 8;

CD-ROM – page 5, lines 20; and,

claim 2 must end in a period.

Appropriate correction is required.

5. A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter. The following deficiencies are noted in the specification:

means language has been used in the summary of the invention; this style of language is only appropriate for the actual claims;

'a data seek time is removed by converting data position information in the HDD into a corresponding memory address so that a data access time is minimized to the order of several nano-seconds.' does not appear to have any relationship with the rest of the specification;

'As a result, Access speed to auxiliary memory';

'rest of maintains';

'and the like';

'although a change in the system and requirements of the capacity increase in geometric progression, the present invention has the ability to easily address the change and the requirements';

'... is use'; and

'an astronomical capacity'.

The detailed language examples given above have obscured the description of what the applicant considers their present invention.

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6. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

35 USC 112, 1st paragraph

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The language directed to 'converting an external bus into an internal bus' in claim 1 is not explained or supported in the specification. Additionally, the language 'tree hierarchical configuration' appears in the claims. This same language appears in the specification. This language is not further explained in either the specification or the claims. It is not clear as to whether the 'tree hierarchical configuration' refers to a type of memory configuration or somehow relates to bus signals. It is not possible from either the specification or the claims to determine the scope of this language or to determine the metes and bounds of the claims.

35 USC 112, 2nd paragraph

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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10. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following claim language is not clear or distinct:

it is not clear as to what is meant by converting an external bus into an internal bus;

it is not clear as to whether the memory module is part of the internal bus or connected to the internal bus;

the language 'means for processing writing data' is unclear in meaning;

it is unclear as to how a SCSI bus is also a converting means, what is being converted and how is the converting being accomplished;

it is unclear as to what type of a configuration for the memory the 'tree hierarchical configuration' represents;

it is unclear as to how a tree hierarchical configuration 'compensates' signals at an intermediate stage, what does the intermediate stage represent and what is a 'lower hierarchy';

the compensation claimed in claim 9 is unclear;

it is unclear as to what elements are 'remaining in a low power mode'; and, it is unclear as to what is being claimed in claim 11.

This language is not defined in either the actual claim language or the specification. It is not possible from either the specification or the claims to determine the scope of this language or to determine the metes and bounds of the claims.

Due to the ambiguities and confusion in claims 1-11 as cited above, no art has been applied thereto, see *In re Steele*, 49 CCPA 1295, 305 F. 2d 859, 134 USPQ 292 (1962) and *In re*

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Wilson, 424 F.2d 1382, 165 USPQ 494 (CCPA 1970). The examiner will not speculate as to the intended meaning.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reba I. Elmore, whose telephone number is (703) 305-9706. The examiner can normally be reached on M-TH from 7:30am to 6:00pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor for AU 2187, Donald Sparks, can be reached for general questions concerning this application at (703) 308-1756. Additionally, the official fax phone number for the art unit is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center receptionist whose telephone number is (703) 305-3800/4700.

Reba I. Elmore

Primary Patent Examiner

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September 5, 2004